Optoma

LIVE THE HIGH-DEFINITION LIFESTYLE

HD81 | Home Theater Projector

HD81 | Home Theater Projection System

The HD81 Delivers True Performance

- The ultimate image-quality with **1080p (1920 x 1080)** resolution
- Astonishing **10,000:1 contrast** (true full on/off contrast ratio)
- **Easy installation** with only one video cable from the image enhancement processor to the 1080p projector
- The HD81's sleek design includes Optoma's innovative wind tunnel shield design that lends itself to quieter operation
- **10-bit** color per channel processing and 7-segment color wheel delivers deeper color saturation

The Optoma HD81 Home Theater Projector

The Optoma HD81 is a distinctive two-piece projection system that includes a native 1080p DLP® projector and a video enhancement processor. Featuring Texas Instruments' DarkChip3™ DMD chipset and a variety of advanced video enhancement technologies, the Optoma HD81 projection system delivers remarkable color saturation and subtle details for the best in 1080p image quality.

The HD81 also features an active 16-step, auto-Iris function that boosts the contrast ratio up to 10,000:1. With 10-bit color per channel color processing and a 7-segment color wheel, the Optoma HD81 delivers great color saturation and subtle color details for the best image quality.

The HD81's video enhancement processor delivers an advanced three-stage process flow (decoding, image enhancement and color reproduction enhancement) that offers an impressive, personalized adjustment setting at each stage.

The two-piece design of the HD81 eliminates the need for multiple cables; all that is needed for the projector to be connected is a single HDMI video cable and a single control cable. With the processor's extensive inputs, there are more than enough connections to up-convert sources to 1080p for optimal viewing.

Optoma's innovative cable management system makes wire-filled installations a thing of the past. Optoma developed an easy-to-install cabling solution to deliver a loss- and interference-free signal from the video enhancement processor to the 1080p projector. This fully digital source-to-display link is connected through a high-speed digital cable signal; and then transmits data to more than 100 feet.

The HD81 offers the best, all-around, high-quality display experience for home theater enthusiasts.

Definitive Color…Incredible Resolution…Ultimate Performance

Advanced Video Processing

The HD81's video enhancement processor delivers an advanced three-stage process flow (decoding, image enhancement and color reproduction enhancement) that offers impressive, personalized adjustment settings at each stage. With a full-range of adjustments for both digital and analog inputs, the video processor provides the power and control to satisfy the most demanding video connoisseur.

The video processor features an abundance of advanced connectivity options, including three HDMI inputs, up to five component inputs and one external HDMI expansion port, as well as RS-232 and discrete IR remote control functionality. With the power of the Gennum VXP and the support of ISF_{ccc} modes, the video processor is one of the highest quality scaler/motion adaptive HD de-interlacer in the market.

Video Processing Enhancement for the Optoma HD81

A studio-grade professional Video Scaler and Color Management System

- The processor possesses the power of the Gennum VXP, the highest quality scaler and 10-bit 480i/576i/1080i motion adaptive HD de-interlacer

Dedicated engine for video enhancement and color management of images

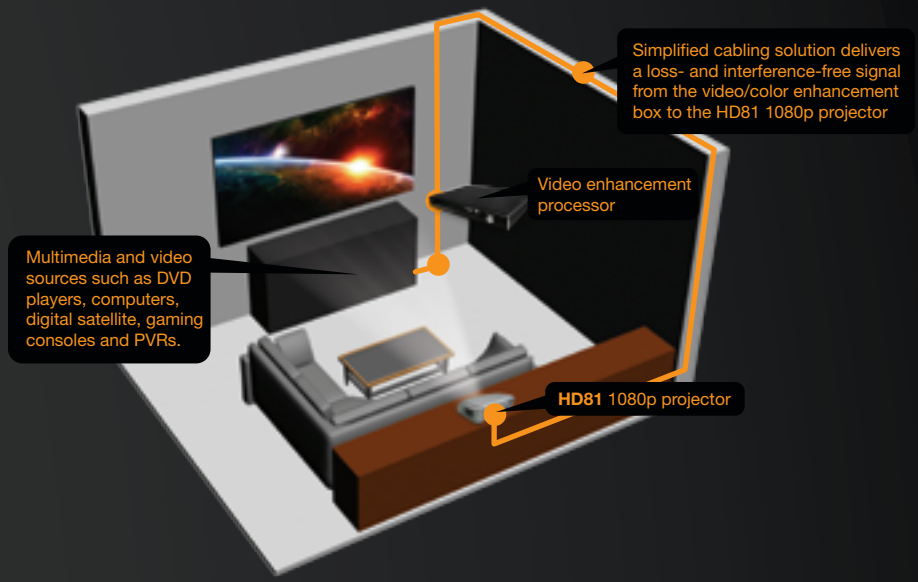
- Advanced 10-step Gamma color enhancement
- RGBCYM 6-color with 16 region adjustments

Extensive inputs

- Three HDMI + external HDMI expansion
- Four components (two RGBHV, two RCA)
- One VGA (RGB/YPbPr/SCART)
- Three composite
- Three s-video
- RS-232
- Two 12V triggers
- IR port extension

ISFccc (Imaging Science Foundation's Certified Calibration Configuration)

Optoma's innovative cable management solution makes bulky, wire-filled installations a thing of the past.


Simplified cabling solution delivers a loss- and interference-free signal from the video/color enhancement box to the HD81 1080p projector
Video enhancement processor
Multimedia and video sources such as DVD players, computers, digital satellite, gaming consoles and PVRs.
HD81 1080p projector

HD81 | Home Theater Projection System

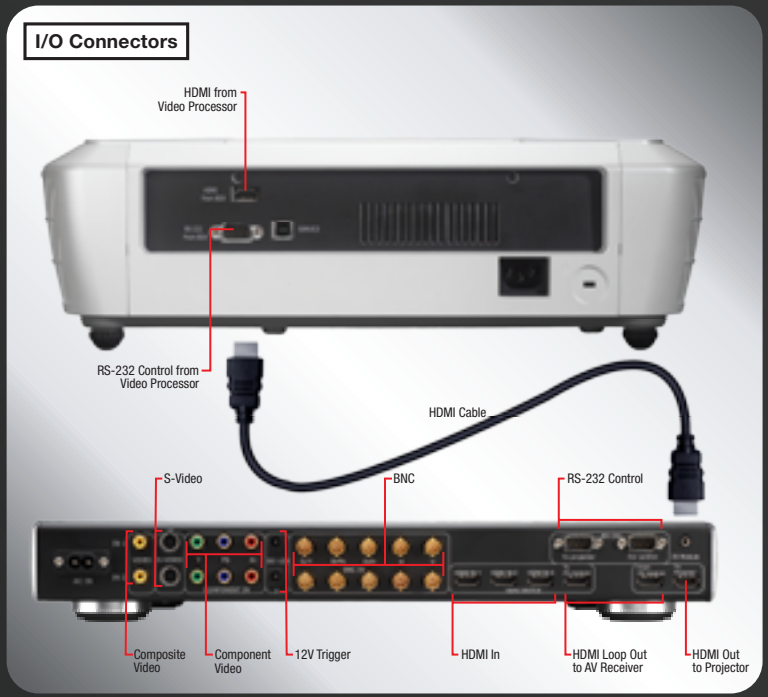
Projector Specifications

Weight:	10 lbs
ANSI Lumens:	1400
Contrast (Full On/Off):	10,000:1
Iris Control:	16-Step Auto-Iris Manual and Auto Mode
Native Resolution:	1080p (1920x1080)
Technology:	Single 0.95" DarkChip3™ DLP® Technology by Texas Instuments
Size (W x H x D):	16.2" x 4.5" x 12.2"
Lamp Type:	300W UHP
Lamp Life:	2000 / 3000 (STD / ECO)
Scaler:	Gennum VXP
HDTV:	480i/p, 576i/p, 720p, 1080i/p
Focus:	Manual
Zoom Lens:	Manual, 1.2x
Digital Zoom:	Yes
Keystone Correction:	Vertical ±15°
Vertical Refresh Rate:	Input: 24 to 85Hz Output: 48, 50, 60Hz
Offset:	136%
Noise:	32dB
Throw Ratio:	1.85 – 2.22:1 (Distance/Width)
Throw Distance:	4.92' to 32.8'
Image Size (Diagonal):	30" to 300"
Security:	One Kensington® Lock Port
Warranty:	3 Years Limited Parts and Labor 90 Days on Lamp
UPC:	796435 11 124 3

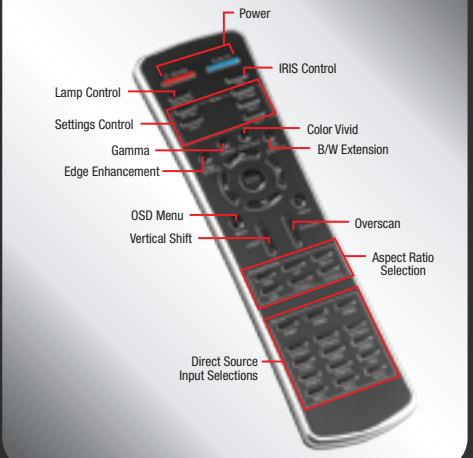
Video Processor Specifications

Weight:	9.2 lbs
Size (W x H x D):	17" x 2.5" x 12"
Image Processing:	Motion Adaptive 480i, 576i and 1080i HD De-Interlacing, 10-bit Image Processing, Advanced 3D Comb Filter, Three Presets plus Two Programmable Display Formats, Advanced Noise Reduction and Sharpening
Color Management:	User Definable Gamma, RGBCYM 6-Color, 16-Region Adjustment, 3 User Defined Modes plus ISF_{ccc} Color Settings
CEDIA Features:	ISF_{ccc}, Discrete IR Commands (On/Off, Sources, Formats, User Settings), External IR Input Pod, RS-232 Control, Programmable 12V Trigger
I/O Connectors:	Three HDMI Inputs plus One External HDMI Expansion Input, Two BNC Component YPbPr/RBGHV, Two RCA Component, Three S-Video, Three Composite, One VGA (RGB/YPbPr/SCART), RS-232, Two 12V Triggers, One IR Port Extension

I/O Connectors



Remote Control



Member CEDIA CUSTOM ELECTRONIC DESIGN & INSTALLATION ASSOCIATION

isf ccc

HIGH-DEFINITION TELEVISION HDTV MONITOR

PICTURE BY DLP TEXAS INSTRUMENTS

Available from:

Optoma Technology, Inc.
715 Sycamore Drive, Milpitas CA 95035 • Tel: 408-383-3700 • Fax: 408-383-3702 • For more information, please visit www.OptomaUSA.com.

Specifications subject to change without notice. Copyright © 2007 Optoma Technology, Inc. DLP® and the DLP logo are registered trademarks of Texas Instruments. All other names mentioned herein are property of their respective owners. [Data-HD81-003-121106]